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**BIOLOGICAL EFFECTS of
ELECTROMAGNETIC RADIATION -
A BIBLIOGRAPHY**

July, 1971

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**Behavioral Radiology Laboratory
Division of Neuropsychiatry
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13. ABSTRACT

THIS REPORT DESCRIBES THE DA LITERATURE PROGRAM ON BIOLOGICAL EFFECTS OF ELECTROMAGNETIC RADIATION AND GIVES BIBLIOGRAPHIC INFORMATION ON REFERENCES IDENTIFIED TO DATE. IT IS A PRELIMINARY REPORT CIRCULATED TO ELICIT ADDITIONS TO THE BANK AND TO ACQUAINT POTENTIAL USERS WITH THE CURRENT CONTENTS.

14. KEY WORDS	LINK A		LINK B		LINK C	
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BIOLOGICAL EFFECTS OF ELECTROMAGNETIC RADIATION
A BIBLIOGRAPHY

JULY, 1971

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ABSTRACT

This report describes the DA literature program on the biological effects of electromagnetic radiation and gives bibliographic information on approximately 1160 references identified to date. It is a preliminary report circulated to elicit additions to the data bank and to acquaint potential users with the current contents.

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INTRODUCTION

One important task of the Department of Defense program of research on the biological effects of electromagnetic radiation is the collection and codification of the world literature on the subject. This report is the first general release of the results of this task.

Mead Data Central has had the contractual responsibility for building a computerized data bank of abstracts of the literature which would subsequently be made available to investigators interested in the effects and hazards of nonionizing radiation. This work has been carried on under Air Force Contract F33615-70-C-1789; technical monitorship has been by the Division of Neuropsychiatry, Walter Reed Army Institute of Research*. This report contains bibliographic citations to approximately 1160 publications. Some 500 of them have been abstracted and added to the data bank; updates at the rate of one to two hundred per month are planned to be followed by a current awareness program. Typical abstracts of two articles are included in this report.

This preliminary report is being circulated to those scientists in the United States known to be active or interested in the biological effects and hazards of nonionizing electromagnetic radiation for purposes of ensuring completeness of the final data bank and to determine the level of interest in utilization of this resource, once completed.

It is requested that you review the bibliography and that you complete the survey form in Appendix A. Please return it to the address indicated thereon. Your cooperation will be of great value in completing the design of a user system to maximize the utility of the data bank.

* This work was sponsored by the Advanced Research Projects Agency under ARPA Order 1508.

BIOLOGICAL EFFECTS OF ELECTROMAGNETIC RADIATION

(BEER)

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Abramson, D. I.

TITLE:

Effects of Short Wave Diathermy.

PUBLICATION:

Amer J Phys Med 39:87-95, 1960.

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AUTHOR:

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The Action of a Pulsed Electric UHF Field on the Organism.

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Asanova, T. P. and Rakov, A. M.

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AUTHOR:

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TITLE:

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PUBLICATION:

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PUBLICATION:

Fed Proc, Part III, 24(1);S22-S26, 1965.

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AUTHOR:

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PUBLICATION:

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PUBLICATION:

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AUTHOR:

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Barber, D. E.

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PUBLICATION:
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Tech Doc Report RADCTDR64273, Final Report 5545. Task 554502, Rome
Air Development Center, Griffiss AFB, N. Y., October 1964, AD608746.

DC 00001024 001

AUTHOR:
Zaret, M. M.

TITLE:
Effects of Electromagnetic Radiation on Biological Systems.

PUBLICATION:
Zaret Found, Scarsdale, N. Y., DAMD4919364G136, 1965, AD615469.

DC 00001023 001

AUTHOR:
Zaret, M. M.

TITLE:
Ophthalmic Hazards of Microwave and Laser Environments.

PUBLICATION:
Zaret Found, Scarsdale, N. Y., DA49193MD2592, 1967, AD654523.

DC 00001027 001

AUTHOR:
Zaret, M. M. and Eisenbud, M.

TITLE:

Preliminary Results of Studies of the Lenticular Effects of Microwaves Among Exposed Personnel.

PUBLICATION:

Proc 4th Ann Tri-Service Conf Biol Effects Microwave Radiation, ed. M. F. Peyton, Plenum Press, N.Y., 293-308, 1961, AD244867.

DC 00001026 001

AUTHOR:

Zaret, M. M.; Cleary, S. F.; Pasternack, R.; Eisenbud, H.; Schmidt, H.

TITLE:

A Study of Lenticular Imperfections in the Eyes of a Sample of Microwave Workers and a Control Population.

PUBLICATION:

A Joint Study From the Depart of Ophthalmology and Industrial Med, N. Y. Univ Med Center, Rome Air Development Center, RADCTDR63125 Griffiss AFB, N. Y. March 1963, AD413294.

DC 00001025 001

AUTHOR:

Zaret, M.; Cleary, S.; Pasternack, R.; Eisenbud, H.

TITLE:

Occurrence of Lenticular Imperfections in the Eyes of Microwave Workers and Their Association With Environmental Factors.

PUBLICATION:

RADCTN61226, 1961.

DC 00001018 001

AUTHOR:

Zarzhevskiy, S. Ya. and Karelin, O. M.

TITLE:

The Methods of Calculating the Protective Zones in the Radar Station Areas.

PUBLICATION:

Voennomed Zh (12) 1966, ACSIJ1642.

DC 00001028 001

AUTHOR:

Zdecki, S.

TITLE:

Investigations and Rating of the Organ of Vision of Persons Exposed to the Effect of Microwaves (with Particular Consideration of Dullness in the Eye Lenses).

PUBLICATION:

1968, AD845280.

DC 00001029 001

AUTHOR:

Zeller, E. A.; Wakim, K. G.; Herrick, J. F.; Benedickt, W.

TITLE:

Influence of Microwave on Certain Enzyme Systems in the Lens of the Eye.

PUBLICATION:

Amer J Ophthal 34(9):1301, 1951.

DC 00001030 001

AUTHOR:

Zendle, R. and Goodale, E. E.

TITLE:

Some Unusual X-Radiation Dosimetry Problems Associated with Radar Installations.

PUBLICATION:

Health Phys 2:78-80, 1959.

DC 00001031 001

AUTHOR:

Zenina, I. M.

TITLE:

Effect of Pulsed Electromagnetic UHF Fields on the Control Central Nervous System After Single and Chronic Exposure.

PUBLICATION:

Biological Effect of Radio Frequency Electromagnetic Fields, Inst of Industrial Hygiene and Occupational Diseases, Academy of Med Sci, USSR, Moscow, 26-32, 1964.

DC 00001033 001

AUTHOR:

Zhukhin, V. A.

TITLE:

Pathomorphological Changes Occurring in the Central Nervous Systems of Animals Exposed to Ultrashort Waves.

PUBLICATION:

Tr Nauchno-issledovatel'skogo Inst Nevrologii i Fiziol Metodov Lecheniya, Turkman SSSR (2), 1967.

DC 00001032 001

AUTHOR:

Zhukhin, V. A.

TITLE:

Pathological Anatomical Changes in Certain Animals Under the General Influence of UHF on Them.

PUBLICATION:

Works of the Turkmen Med Inst 2(3-4):1-247, 1938.

DC 00001034 001

AUTHOR:

Zilitinkovich, S. I.; Balobei, P. P.; Bogdanova, E. K.; Ivanov, P. P.; Kuznetsov, Yu. V.

TITLE:

Measuring Apparatus for Biological and Medical Investigations in Centimeter Range of Radiowaves.

PUBLICATION:

Biomed Eng 1(3):177-179, 1967.

DC 00001135 001

AUTHOR:

Zicra, A. M.; Connoiu, M.; Voicu, A.; Stratulat, L.; Bolohan, I.

TITLE:

Histochemical Studies on Some Alterations of the Animal Organism Under the Action of Microwaves.

PUBLICATION:

S3xd Cercet Balneol Fiziolter 8:612-621, 1967, A6880778.

DC 00001035 001

AUTHOR:

Zore, V. A.; Kimel'fed'd, O. D.; Suzdaleva, V. V.; Kobyzenna, L. P.; Genkina, Ye. S.

TITLE:

Complex Dielectric permittivity of Human Blood Serum Under Normal Conditions and During Some Diseases in the 100-500 MHz Range.

PUBLICATION:

Biofizika 12(1):124-126, 1967.

DC 00001036 001

AUTHOR:

Zubenko, P. M.

TITLE:

Mechanism of the Action of UHF on Gas Exchange.

PUBLICATION:

Dnepropetrovsk Universitet, Institut fiziologii, Sbornik rabot (3 : 63, 1940.

DC 00001037 001

AUTHOR:
Zydecki, S.

TITLE:
Examination and Rating of the Vision of Persons Exposed to
Microwaves Effects (With Special Attention to Eye Lens Capacity).

PUBLICATION:
Lekarz Wojskowy (2):124-129, 1967.

APPENDIX A

QUESTIONNAIRE

Biological Effects of Electromagnetic Radiation

Data Base

This questionnaire elicits your comments on the content and form of the data bank on the above subject. Use continuation sheets ad lib. (*)

1. Name: _____
 2. Affiliation: _____
 3. Address: _____
 4. Phone Number: _____
 5. Are you now active in research on the biological effects and hazards of nonionizing electromagnetic radiation ($f < 100$ GHz; $\lambda > 3$ mm)?
Yes _____ No _____
 6. If the answer to question 5 was No, when were you last so engaged?
Year _____ Never _____
 7. What is your area of expertise?

 8. What percentage of your relevant publications are included in the bibliography?
(Please list missing papers on the reverse or on attached sheets and provide reprints, if available). _____ %
 9. Do you have a personal collection of relevant literature?
Yes _____ No _____
 10. What approximate percentage is included in the Bibliography? _____ %
 11. Would you be willing to loan or grant access to your copies of articles not now included so that they may be added?
Yes _____ No _____
 12. The data bank will be automated. Searches may be made by author, subject, or by any word or phrase in the text of the abstracts. Based upon review of the sample abstracts, would such a service be of value to you in your research?
Yes _____ No _____
- How Much? Great _____ Moderate _____ Questionable _____

13. Do you have a teletype/data phone facility, standard computer Execuport, or other dial-up terminal? Yes ___ No ___

If yes, what type? _____

14. Would you be interested in direct access to the data bank? Yes _____. Only if free _____.
On a subscriber basis _____. Not at all _____.

15. If not so equipped, would mail or telephone access be of value to you? Yes _____. Only if free _____.
On a subscriber basis _____. Not at all _____.

16. If either 14 or 15 are affirmative, about how frequently would you use the bank?

17. What Journals would you suggest be monitored for current awareness (list)?

18. Suggestions (Please note any salient references not included in the bibliography, discuss the value of the data bank from your standpoint and offer any comments you have concerning the content or form of the abstracts or a system for user communication.)

*Please return completed questionnaire to:

Walter Reed Army Institute of Research
Attn: H. Mark Grove (Building 502)
Division of Neuropsychiatry
Walter Reed Army Medical Center
Washington, D. C. 20012

This image shows a single sheet of white paper with horizontal black ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

APPENDIX B

SAMPLE ABSTRACTS

\$NR: 003037

\$AUTHOR: Carpenter, R. L. (Ph.D.)

\$TITLE:

Experimental Radiation Cataracts Induced by Microwave Radiation.

\$PUBLICATION:

Proc 2nd Tri-Service Conf on Biological Effects of Microwave Energy, eds. E. G. Pattishall and F. W. Banghart, 146-168, 1958; Review of work conducted at Tufts University, AD 131477.

\$DATE: 1958

\$SUBDATE: 8 - 10 July, 1958

\$COUNTRY: U.S.A.

\$AFFILIATION: Department of Biology, Tufts University

\$TYPECLASS:

Experimental, embryological, general health, review, physiology

\$PRINEFFECT: Thermal, athermal

\$METHOD:

Chicken eggs incubated for 48 hours were exposed to microwave radiation for 6 - 9 minutes at a power density of 0.28 watts/sq. cm., then were returned to incubator for another 48 hours.

Rabbits were exposed to CW radiation at 0.12 to 0.40 W/sq. cm. densities for 5 - 75 minutes with the right eye at 2 inches distance from the housing over the dipole crossover of the director "C". Following exposure, ophthalmoscopic and slit lamp examinations of the eye were made daily and stereo color photographs of the eye were taken. Power density of the R-F field at the position of the eye was measured by a calorimetric method. The temperature of the vitreous was recorded during irradiation at 5 different power levels using a thermistor needle probe inserted in the eye.

Subsequently, 43 rabbits were subjected to repeated subthreshold exposures to a CW power density of 0.38 W/sq. cm. for 3 - 5 minutes each time, with 24 hours to 2 week intervals between exposures.

Also, the eyes of 12 and 4 rabbits were exposed for 20 minutes to radiation of 0.14 W/sq. cm. average power density, which was pulsed on a 50 and 25% duty cycle, respectively. The peak power of each pulse was 0.28 and 0.56 W/sq. cm., respectively, and the pulse repetition rates were 200, 1000, or 5000 pps. in the first group and 200 or 1000 pps. in the second.

\$RESULT:

Nine minute exposures of the 48 hour chick embryo to microwaves at 0.28 W/sq. cm. were lethal and exposures of 5 minutes had no apparent effect, but exposures of 7 or 8 minutes duration resulted in developmental abnormalities which were evident in the embryos examined at the 96 hour stage. The brain, eye, and heart showed suppression of further differentiation in the embryo exposed to microwaves at the 48 hour stage, but their growth continued uninhibited.

In the experiments with 56 rabbits, time and CW power thresholds for the onset of lenticular opacities in a single exposure were established to be 5 minutes at 0.28 W/sq. cm. The higher the power, the less the duration of a single exposure required to produce an opacity. As the power is decreased, the duration of a single exposure must be increased to produce an opacity. The power multiplied by the square root of time is a constant. The average latent period between the time of exposure and the onset of an opacity was 3-1/2 days. The degree of specification varies with the power and duration of the exposure. As the power is increased, the temperature of the vitreous rises more rapidly and reaches a higher level before tending to flatten out. At each power level, the threshold time for opacity formation coincides with the time of exposure at which the vitreous temperature is close to 50° C.

In the experiments with rabbits subjected to repeated subthreshold exposures to CW radiation at 0.28 W/sq. cm. power level, 34 of the 43 rabbits developed various degrees of lenticular opacities. In 14 of these cases, partial or complete regression of the cataract occurred. In a number of cases the lesions have persisted for periods up to 11 months. Cumulative effects have been manifest under conditions as follows: 5, 4, 3-1/2, or 3 minute exposures each day for a total of 4 or 5 exposures; 5 minute exposures every other day for a total of 2 or 3; 5 or 4 minute exposures each week for a total of 2 or 2-4, respectively; and 4 minute exposures every other week for a total of 2-4 exposures.

In the group of 12 rabbits with eyes exposed for 20 minutes to pulsed wave radiation on a 50% duty cycle at 0.14 W/sq. cm. average power, lens opacities developed in 8 of them. Some of the opacities subsequently regressed and others remained permanently.

In the group of 4 rabbits exposed for 20 minutes to radiation of 0.14 W/sq. cm. average power density pulsed on a 25% duty cycle, lens opacities developed in 2, which were pulsed at 200 and 1000 pps., respectively.

\$DISCUSSION: None

\$CONCLUSION:

The work on the irradiated chick embryos was still in progress at the time of study.

In all cases in which lenticular opacities occur, they are preceded by the cortical banding.

The conclusion was drawn from the experiments with rabbits subjected to a single exposure to CW radiation, that the cataractogenic effect of microwave radiation is a thermal effect, with 50° C constituting a critical temperature.

Opacities may develop as a cumulative effect of repeated subthreshold exposures to amounts of CW microwave radiation which singly exert no harmful effect. The cataracts so produced do not differ significantly in morphology or in severity from those caused by single exposures above threshold values.

In the light of the experiments with the effects of pulsed microwave radiation, the conclusion was drawn that the cataractogenic effect of microwaves at the experimental frequency is not primarily a thermal effect.

In the author's opinion, it would be advisable to pay attention to peak powers of the R-F fields rather than to average powers in considering possible hazards to personnel.

\$WAVEFREQ: 12.3 cm., 2440 MHz

\$WAVEMED: CW, pulsed: 200; 100, or 5000 pps.

\$POWERINTEN:

CW: 0.12 to 0.40 W/sq. cm.; pulsed: M 0.14 W/sq. cm., P 0.28 and 0.56 W/sq. cm.

\$OTHERIN: None

\$EQUIP:

Ratheon Microtherm Model DCM4 microwave source, Donaldson
Stereo Ophthalmic camera, output pulsing circuit.

\$TYPEXPOS: Acute, intermittent.

\$EXPSUB:

Chick embryo, 115 male New Zealand white rabbits, 6 - 10
weeks old.

\$SYSTEM: Whole embryo, visual system.

\$MISC:

23 p., 10 fig., sponsor: Rome Air Development Center, contract:
AF 18(6000)-1792.

\$NR:

\$AUTHOR:

Alfred W. Richardson, Ph.D., Donald H. Lomax, M.D.,
John Nichols, Ph.D., and Harold D. Green, M.D.

\$TITLE:

The role of energy, pupillary diameter, and alloxan diabetes
in the production of ocular damage by microwave irradiations.

\$PUBLICATION: American Journal of Ophthalmology, Vol. 35, No. 7.

\$DATE: July, 1952

\$COUNTRY: U.S.A.

\$AFFILIATION:

Physiology Department, School of Medicine, Indiana University
Bloomington, Indiana, (1st author) and Departments of Physiology
and Pharmacology, Bowman Gray School of Medicine, Winston-Salem, N.C.

\$TYPECLASS: Experimental, physiological, metabolic.

\$PRINEFFECT: Undetermined

\$METHOD:

Rabbits *in vivo* were anesthetized and irradiated with microwaves
over a 16-month period. The distances reported were measured from
the plastic wave director housing to the cornea. The animals were
given sufficient water and food during the experiments. The eyes
were inspected by means of an ophthalmoscope prior to irradiation,
immediately after, and at regular intervals thereafter.

\$RESULT:

Exposures of 11 animals to microwaves of 100 W output at 15.3
cm distance for 20 minutes resulted in no observable opacities over
an 8 month period.

Similar exposures of groups of 8, 2, and 5 animals at respective
distances of 3.5, 3.75, and 5.0 cm. for 15 to 20 minute periods
resulted, respectively, in 75, 50, and 25% lenticular opacities
within 2 to 14 days following irradiation.

Constriction or dilatation of the pupil by atropine or prostigmine did not prevent the formation of lenticular opacities in 11 of the 12 animals irradiated at 3 to 5 cm. distances from the cornea. Pupil diameters in these cases varied from 2 mm to full dilatation. This type of opacification was described.

Two groups of 8 and 23 animals each, received, respectively, 75 and 125 mg/kg injections of alloxan, then, 3 to 4 days later, were irradiated with 100 W. of microwaves for, respectively, 20 minutes at 6.0 cm. and 12 minutes at 5.0 cm. distances. No cataract was formed in any eye of the first group within 30 days after irradiation. In the second group, 33% of the animals developed lenticular opacities within 2 to 15 days of exposure. The average blood sugar content at time of irradiation was 201 and 359 mg %, respectively, in the first and second group of this series.

Differences were noted in the position of opacity in the lens between diabetic and diabetic-irradiated-with-microwaves rabbits.

\$DISCUSSION:

Results of the experiments were discussed from the viewpoint of establishment of safety conditions in microwave therapy. Three possibilities were suggested for the role of heat in microwave exposure. It is believed that the hypothesis will prevail which suggests that heat may be a result of microwave irradiations and may contribute to lenticular damage rather than initiate it. However, more experiments, especially with IR irradiations, are needed to verify their hypothesis.

\$CONCLUSION:

Microwave-induced opacities are due both to increased ocular temperature and a disturbance of the dynamic metabolic equilibrium of the lens. There is a summation of the effects of microwaves and diabetes, presumably in the impairment of the metabolic balance of the eye.

\$WAVEFREQ: 12.25 cm.

\$WAVEMOD: Undetermined.

POWERINTEN: A fraction of 1 W/sq. cm. at 6" distance

OTHERIN:

Atropine diluted solution, prostigmine, alloxan 75 and 125 mg/kg.

\$EQUIP:

Raytheon microwave generator model CMD4, rectangular corner-type wave director, ophthalmoscope.

\$TYPEXPOS: Acute

\$EXSUB: 62 gray or albino rabbits weighing 2 to 5 kg.

\$SYSTEM: Visual system.

\$MISC:

8 pp., 4 fig., 5 tables, 16 ref., grant H-487C from the National Heart Institute of the National Institutes of Health.

\$NR: 003054

\$AUTHOR: Belova, S.F. and Gordon, Z.V.

\$TITLE: Action of Centimeter Waves on the Eye

\$PUBLICATION: Bull Exper Biolo Med, 41(4):43-46, 1956

\$DATE: 1956

\$SUBDATE: May 3, 1955

\$COUNTRY: U.S.S.R.

\$AFFILIATION:

Institute of Industrial Hygiene and Occupational Diseases,
Acad. Med. Sc., U.S.S.R., Moscow.

\$TYPECLASS: Experimental, general health

\$METHOD:

One eye of the rabbits was exposed to 10 cm. microwave radiation. Forty minutes before an exposure, the pupils were dilated by administering 1% homatropine. The eyelids were kept open by retraction with adhesive tape.

In the series of acute experiments the rabbits were subjected to 1 - 7 exposures each of 1 hour duration.

In the chronic experiment series, the rabbits were exposed daily for 10 minute periods for 6 weeks.

Ophthalmoscopic, slit-lamp, and morphological examinations were made before and after each exposure.

\$RESULTS:

In acute experiments immediately after irradiation, reddening of the conjunctiva, sinuous red band of dilated vessels, dull and edematous cornea were observed. Different animals exhibited various degrees of injection of the pericorneal vessels which disappeared within 4 - 5 days. The capsule of the iris and the fundus showed slight hyperemia which disappeared within 24 hours. Zigzag bands were observed traversing the lens of some animals. Observation was continued for 4 - 5 months.

In chronic experiments, slight irritation of the anterior parts of the eye was observed after the first exposure, which became more pronounced after the third. Changes in the lens developed usually after 15 - 17 exposures (21 days) and were similar to those in group I.

The observations were confirmed by morphological examinations of both groups. In the acute series, the changes in the cornea amount to keratosis, with subsequent scaly desquamation. Hydration of the cortical layers was also observed in the lens.

In the chronic series, a tendency was evident toward keratosis and desquamation in the superficial layers, as well as hydration of the cortical layers of the lens.

\$DISCUSSION:

The intensity of irradiation was about 30 times smaller than in the foreign experiments whose authors concluded that the injuries to the eye were the result of thermal effects of exposure to cm waves. The intensity in the authors' experiments was considered still too high to allow the exclusion of thermal effects.

\$CONCLUSION:

Further experiments are planned to study the action of very weak cm wave radiation and to establish the mechanism of the action.

\$WAVEFREQ: 10 cm.

\$POWERINTEN: 110 mV/cm²

\$OTHERIN: 1% homatropine

\$TYPEXPOS: Acute, chronic

\$EXPSUB: 25 gray rabbits, weighing 3.5 - 4 kg.

\$SYSTEM: Visual system.

\$MISC: 4 p., 2 fig., 4 ref. (Original source at NLM.)

APPENDIX C

ABSTRACT FORMAT

\$NR:	Document Accession Number
\$AUTHOR:	
\$TITLE:	
\$PUBLICATION:	Journal of Publication
\$DATE:	Date of Publication
\$SUPDATE:	Date Submitted
\$COUNTRY:	Country of Origin
\$AFFILIATION:	Affiliation of Author(s)
\$TYPECLASS:	Broad Description of Type of Study
\$PRINEFFECT:	Principal Effects Observed
\$METHOD:	
\$RESULT:	
\$DISCUSSION:	
\$CONCLUSION:	
\$WAVEFREQ:	Wavelength or Frequency Used
\$WAVEMOD:	Modulation, if any
\$POWERINTEN:	Intensity of Radiation
\$OTHERIN:	Other Input (Drugs, etc.)
\$EQUIP:	Salient Equipment Used
\$TYPEXPOS:	Type of Exposure e.g., Acute, Chronic
\$EXSUB:	Experimental Subject(s)
\$SYSTEM:	Biological System Analyzed
\$MISC:	Miscellaneous Additional Information